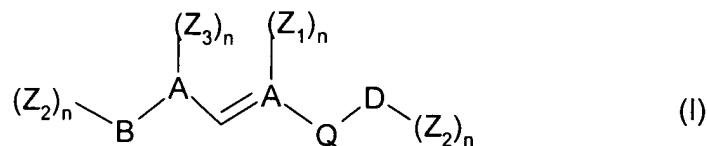


Listing of the claims

This listing of claims provided below will replace all prior versions.

1. (currently amended) A method of ~~achieving an immunomodulatory effect, achieving an antineoplastic effect, or inhibiting hyperproliferative cell growth in a patient in need thereof, comprising administering to said patient an effective amount of a compound of formula I formulae I to XVII~~ or a pharmaceutically acceptable salt thereof



wherein,

B is a phenyl ring,

D is a phenyl ring ~~or a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,~~

A is, in each case independently of each other, a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1 ~~[[,]] or 2 or 3~~ heteroatoms selected from O, S, and N,

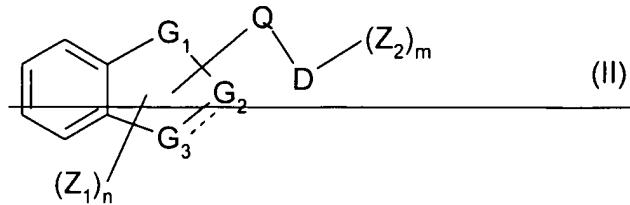
Q is a bond or an alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O, and in which optionally a carbon atom is replaced with an N atom,

Z₁ is, in each case independently, -NH₂, =O, =NH, or =N-phenyl, phenyl, or alkyl containing 1 to 5 carbon atoms,

Z₂ is, in each case independently, -OH, halogen, alkyl containing 1-5 carbon atoms, or ~~CO₂H which is optionally substituted with halogen, and/or substituted with =O and/or OH, and in which one C atom is optionally replaced with an O atom,~~

Z₃ is, in each case independently, alkyl containing 1-5 carbon atoms, and

n is, in each case independently, 0, 1, 2, or 3~~[[;]]~~



wherein,

G_1 , G_2 , and G_3 are, in each case independently, C, O, S, or N;

D is a phenyl ring or a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N;

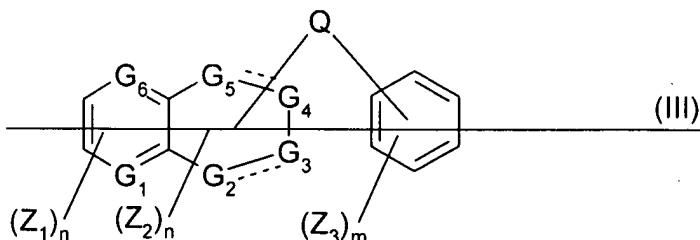
Q is a straight chain or branched alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or S atom;

Z_1 is, in each case independently, =O, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH;

Z_2 is, in each case independently, =O, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH;

n is 0, 1, or 2, and

m is 0, or 1;



wherein,

G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are, in each case independently, C, O, S, or N, such that four or five of G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are C atoms and the remaining G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are O, S, or N;

Q is a bond or a straight chain or branched alkylene or alkenylene group containing 1-10

~~carbon atoms which is optionally substituted with =O in one or two places, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or O atom, and in which optionally a carbon atom is replaced with a 6 membered heterocyclic group containing 1 or 2 nitrogen atoms when the alkylene or alkenylene group is a straight chain group,~~

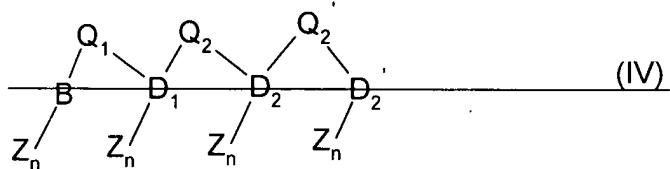
~~Z₁ is, in each case independently, OH, halogen, or an alkyl group containing 1-5 carbon atoms;~~

~~Z₂ is, in each case independently, =O, halogen, or an alkyl group containing 1-10 carbon atoms which is optionally substituted with =O in one or two places and/or OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N and/or S atom;~~

~~Z₃ is, in each case independently, OH, halogen, NO₂, an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with =O in one or two places, or is O-phenyl, wherein the phenyl group in the O-phenyl is optionally substituted with an NO₂ group;~~

~~n is 0, 1, or 2, and~~

~~m is 0, 1, 2, or 3;~~



~~wherein,~~

~~B is a phenyl ring;~~

~~D₁ is a phenylene ring or a 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N;~~

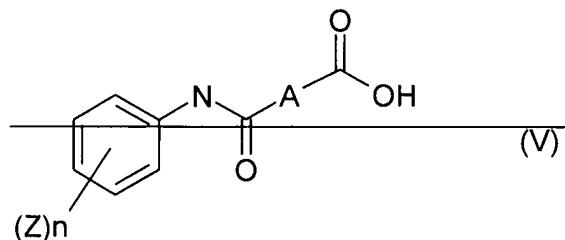
~~D₂ and D₂' are, each independently of each other, absent or a phenyl or phenylene ring or a 5- or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N;~~

~~Q₁~~—~~is a bond or a branched or straight chain alkylene or alkenylene group containing 1-10 carbon atoms, which is optionally substituted with 1 to 5 =O and/or OH groups, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N, O or S atom, wherein S is optionally substituted with 1 or 2 =O groups;~~

~~Q₂ and Q₂'—are, each independently of each other, a bond or a branched or straight chain alkylene group containing 1-5 carbon atoms, which is optionally substituted with an =O group, in which optionally a carbon atom is replaced with an N, S, or O atom, wherein Q₂ is absent when D₂ is absent and Q₂' is absent when D₂' is absent;~~

~~Z—~~is, in each case independently, ~~=O, =S, OH, NH₂, NO₂, C≡N, SO₃H, is halogen, or a straight chain or branched alkyl or alkenyl group containing 1 to 10, which is optionally substituted with 1 to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, O or S atom, or is a cyclic alkyl group containing 3 carbon atoms;~~

~~n—~~is, in each case independently, 0, 1, 2, 3, 4 or 5;

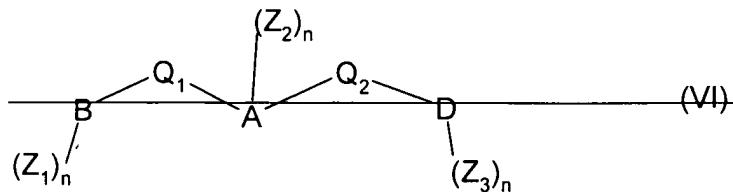


wherein,

~~Z—~~is, in each case independently, ~~NO₂, an alkyl containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with an =O group;~~

~~A—~~is a straight chain alkylene group containing 1 to 5 carbon atoms, and

~~n—~~is 1, 2 or 3;



wherein,

~~B~~ is a phenyl ring,

~~D~~ is absent, or is a phenyl ring or a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,

~~A~~ is a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, 3 or 4 heteroatoms selected from O, S, and N,

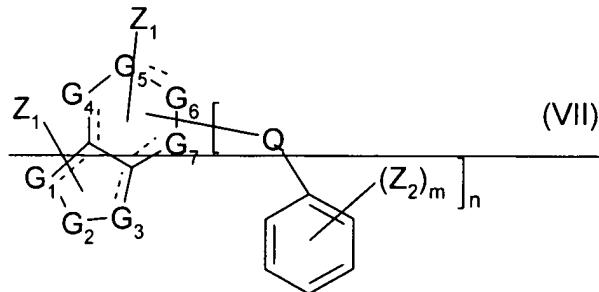
~~Q₁~~ and ~~Q₂~~ are, in each case independently of each other, a bond or a straight chain or branched alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O, N or S atom, and in which optionally 1 or 2 C groups are replaced with C= or =C groups, and which is optionally substituted with an =O group, wherein ~~Q₂~~ is absent when D is absent;

~~Z₁~~ is, in each case independently, ~~NO₂, OH, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, S or O atom,~~

~~Z₂~~ is, in each case independently, ~~NH₂, OH, =NH, =O, =S, phenyl, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an S atom,~~

~~Z₃~~ is, in each case independently, ~~=O, OH, NO₂, NH₂, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an O atom, and~~

~~n~~ is, in each case independently, 0, 1, 2 or 3;



wherein,

G_1 to G_7 are, in each case independently, C, O, S, or N, wherein at least 3 of G_1 to G_7 are C atoms;

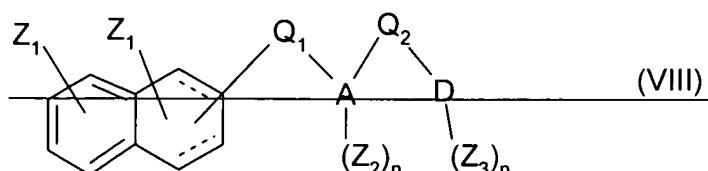
Z_1 is, in each case independently, absent, or =O, =NH or an alkyl group containing 1 to 5 carbon atoms;

Z_2 is, in each case independently, a straight chain or branched alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with 1 or 2 =O and/or OH groups;

Q is, in each case independently, a bond or an alkylene group containing 1 to 5 carbon atoms, which is optionally substituted with =O, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N or S atom, wherein S is optionally substituted with 1 or 2 =O groups, and

n is 0, 1 or 2, and

m is 1 or 2;



wherein,

A is a 5 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N, or is a C_{10} aromatic bi-cyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N;

~~D~~ is absent or is a fully or partially saturated or unsaturated cyclic ring containing 6 or 7 carbon atoms;

~~Q₁~~ and ~~Q₂~~ are, each independently of each other, a bond or a straight chain or branched alkylene group containing 1-10 carbon atoms, which is optionally substituted with an =O group, and in which optionally 1, 2 or 3 carbon atoms, independently of each other, are replaced with an N or O atom, and wherein optionally 1-3 carbon atoms are replaced with a C= and/or =C, and/or when the alkylene group is straight chain with a phenyl group, wherein ~~Q₂~~ is absent when D is absent;

~~Z₁~~ is, in each case independently, absent or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O group, and which is optionally substituted with one or two =O or OH groups;

~~Z₂~~ is, in each case independently, =O or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O in one or two places and/or OH;

~~Z₃~~ is halogen, or an alkyl group containing 1 to 5 carbon atoms, which is optionally halogenated, and

~~n~~ is 1 or 2;

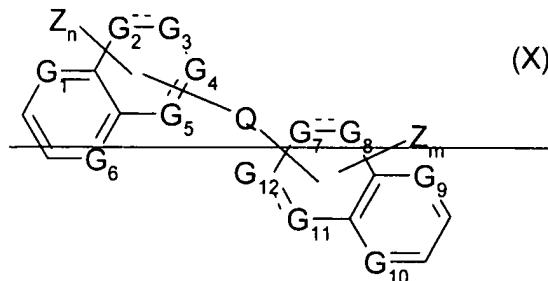
~~A~~ $\begin{cases} (Z)_n \\ \diagup \end{cases}$ (IX)

wherein;

~~A~~ is a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 2 or 3 heteroatoms selected from S and N;

~~Z~~ is, in each case independently, a straight chain or branched alkyl group containing 3-5 carbon atoms, which is substituted with =O and/or OH groups, and in which a carbon atom is replaced with an S atom, and

~~n~~ is 1, 2, or 3;



wherein,

G_1 to G_{12} are, each independently of each other, C, N, S or O,

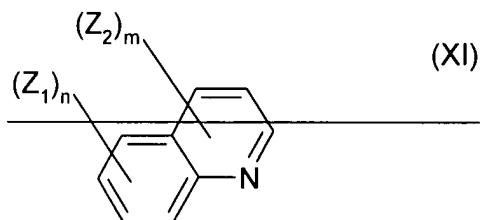
Z is, in each case independently, an alkyl containing 1 to 5 carbon atoms, which is optionally substituted with 1 to 2 =O and/or -OH groups;

Q is a bond or an alkylene group containing 1 to 5 carbon atoms;

m is 0, 1, 2 or 3;

n is 0, 1, 2 or 3, such that

$m+n \geq 1$;



wherein,

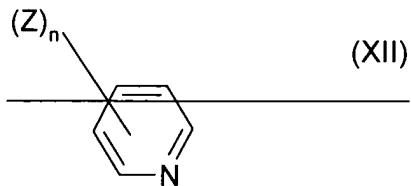
Z_1 is, in each case independently, halogen, -NO₂ or -OH,

Z_2 is, in each case independently, an alkyl group containing 1-5 carbon atoms, which is optionally substituted with an =O and/or -OH group, and in which optionally a carbon atom is replaced with an S atom;

n is 0, 1, 2, or 3;

m is 0, 1, 2, or 3, and

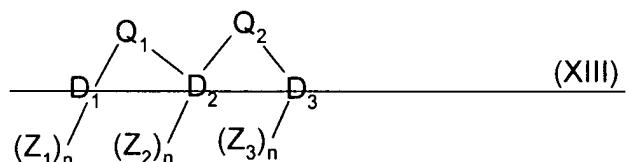
$n+m$ is 3 or more;



wherein,

Z is, in each case independently, $\text{C}\equiv\text{N}$, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with halogen, and/or is substituted with one or more $=\text{O}$ and/or $-\text{OH}$ groups, and in which optionally a carbon atom is replaced with an S atom, and

n is 2, 3, 4 or 5;



wherein,

D_1 is a 5 or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N ,

D_2 is a 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N , or is optionally a phenylene group when D_3 is present,

D_3 is absent or a 5 or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N ,

Q_1 is O , or a straight chain alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an N , O or S atom, and which is optionally substituted with an $=\text{O}$ atom,

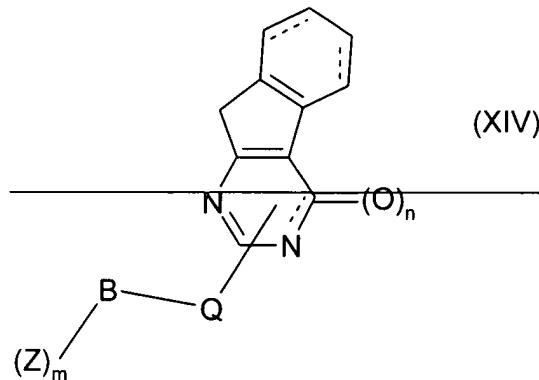
Q_2 is absent when D_3 is absent or is a bond or an $-\text{O}-$ group,

Z_1 is, in each case independently, $=\text{O}$ or halogen,

Z_2 is, in each case independently, $=\text{O}$, $\text{C}\equiv\text{N}$, $-\text{COOH}$, $-\text{NO}_2$ or halogen,

Z_3 is, in each case independently, halogen, and is absent when D_3 is absent, and

n is, in each case independently, 0, 1, 2, or 3;



wherein,

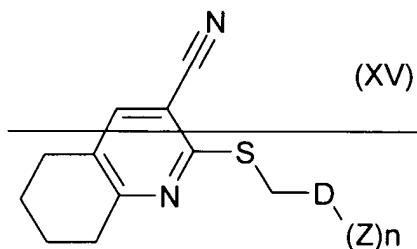
B is a phenylene group;

Q is a straight chain alkylene group containing 1-10 carbon atoms, in which optionally up to three carbon atoms are replaced with an N, O or S atom, and which is optionally substituted with 1 or 2 =O groups;

Z is, in each case independently, halogen, or an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom;

n is 0 or 1, and

m is 1 or 2;

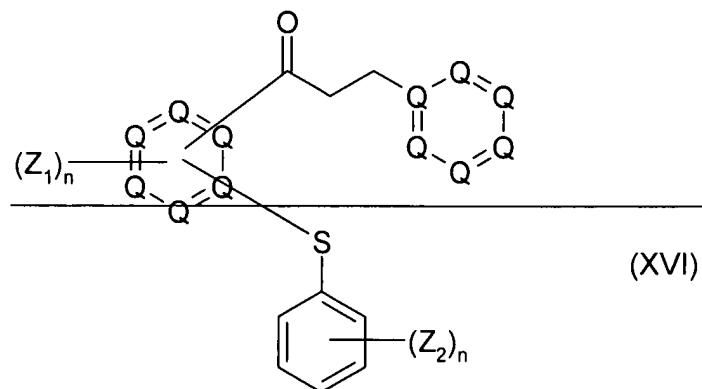


wherein,

D is a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N;

Z is =O

n is 1, or 2;



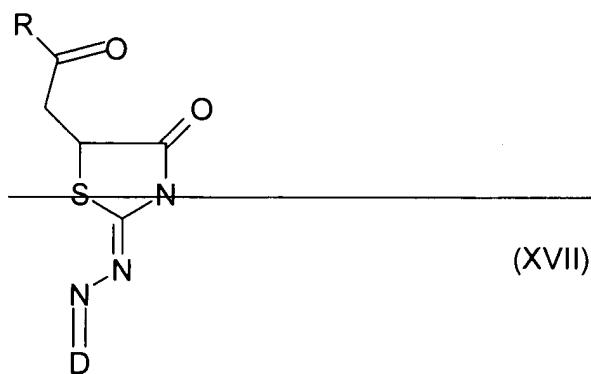
wherein,

Q is, each independently, C or N, wherein,

Z_1 is a phenyl group, or 2 of Z_1 together form with the Q atoms to which they are bound a 6-membered aromatic ring containing only C atoms,

Z_2 is halogen, preferably Cl, and

n is 1, or 2;

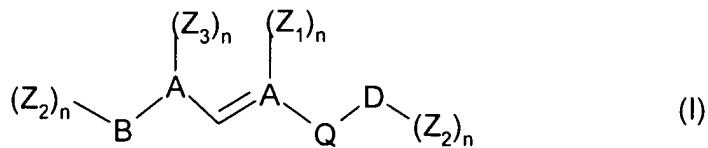


wherein,

D is, a carbocyclic group containing 8 to 10 carbon atoms, and

R is OH or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an N or O atom or with a phenyl group, and which is optionally substituted with 1 to 2 =O and/or OH groups.

2. (currently amended) A method of inhibiting modulating the binding of a p56^{lck} molecule via an SH2 domain thereof to a corresponding cellular binding protein, or inhibiting modulating the activity of a p56^{lck} molecule via an SH2 domain thereof, comprising administering a compound of formula I formula I-to-XVII or a pharmaceutically acceptable salt thereof



wherein,

B is a phenyl ring,

D is a phenyl ring ~~or a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,~~

A is, in each case independently of each other, a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1[[],] ~~or 2 or 3~~ heteroatoms selected from O, S, and N,

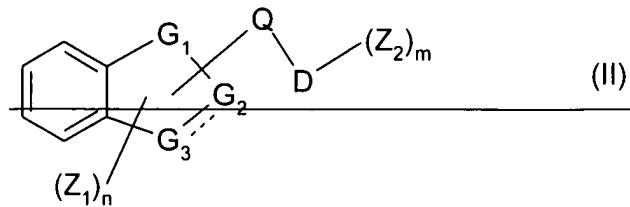
Q is a bond or an alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O, and in which optionally a carbon atom is replaced with an N atom,

Z₁ is, in each case independently, ~~-NH₂, =O, =NH, or =N-phenyl~~, phenyl, or alkyl containing 1 to 5 carbon atoms,

Z₂ is, in each case independently, ~~-OH, halogen, alkyl containing 1-5 carbon atoms, or CO₂H which is optionally substituted with halogen, and/or substituted with =O and/or OH, and in which one C atom is optionally replaced with an O atom,~~

Z₃ is, in each case independently, alkyl containing 1-5 carbon atoms, and

n is, in each case independently, 0, 1, 2, or 3[[]]



wherein,

G_1 , G_2 , and G_3 are, in each case independently, C, O, S, or N;

D is a phenyl ring or a 5 or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N;

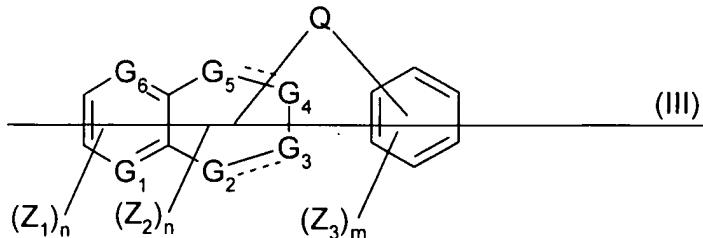
Q is a straight chain or branched alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O and/or OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or S atom;

Z_1 is, in each case independently, =O, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or OH;

Z_2 is, in each case independently, =O, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or OH;

n is 0, 1, or 2, and

m is 0, or 1;



wherein,

G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are, in each case independently, C, O, S, or N, such that four or five of G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are C atoms and the remaining G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are O, S, or N;

Q is a bond or a straight chain or branched alkylene or alkenylene group containing 1-10

~~carbon atoms which is optionally substituted with =O in one or two places, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or O atom, and in which optionally a carbon atom is replaced with a 6-membered heterocyclic group containing 1 or 2 nitrogen atoms when the alkylene or alkenylene group is a straight chain group,~~

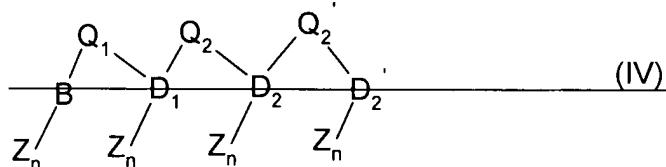
~~Z₁ is, in each case independently, =O, halogen, or an alkyl group containing 1-5 carbon atoms;~~

~~Z₂ is, in each case independently, =O, halogen, or an alkyl group containing 1-10 carbon atoms which is optionally substituted with =O in one or two places and/or =OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N and/or S atom;~~

~~Z₃ is, in each case independently, =O, halogen, NO₂, an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with =O in one or two places, or is =O-phenyl, wherein the phenyl group in the =O-phenyl is optionally substituted with an NO₂ group;~~

~~n is 0, 1, or 2, and~~

~~m is 0, 1, 2, or 3;~~



wherein,

~~B is a phenyl ring;~~

~~D₁ is a phenylene ring or a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N;~~

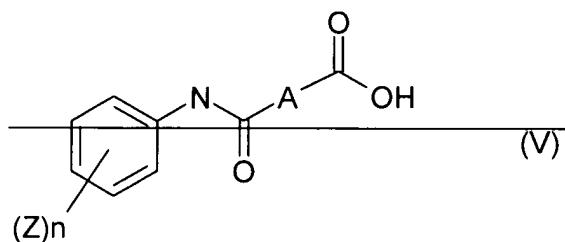
~~D₂ and D₂' are, each independently of each other, absent or a phenyl or phenylene ring or a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N;~~

~~Q₁ is a bond or a branched or straight chain alkylene or alkenylene group containing 1-10 carbon atoms, which is optionally substituted with 1 to 5 =O and/or OH groups, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N, O or S atom, wherein S is optionally substituted with 1 or 2 =O groups;~~

~~Q₂ and Q₂' are, each independently of each other, a bond or a branched or straight chain alkylene group containing 1-5 carbon atoms, which is optionally substituted with an =O group, in which optionally a carbon atom is replaced with an N, S, or O atom, wherein Q₂ is absent when D₂ is absent and Q₂' is absent when D₂' is absent;~~

~~Z is, in each case independently, =O, =S, OH, NH₂, NO₂, C≡N, SO₃H, is halogen, or a straight chain or branched alkyl or alkenyl group containing 1 to 10, which is optionally substituted with 1 to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, O or S atom, or is a cyclic alkyl group containing 3 carbon atoms;~~

~~n is, in each case independently, 0, 1, 2, 3, 4 or 5;~~

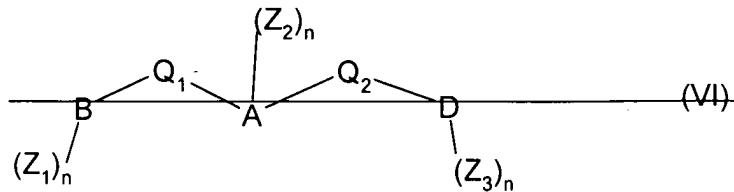


wherein,

~~Z is, in each case independently, NO₂, an alkyl containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with an =O group;~~

~~A is a straight chain alkylene group containing 1 to 5 carbon atoms, and~~

~~n is 1, 2 or 3;~~



wherein,

B is a phenyl ring,

D is absent, or is a phenyl ring or a 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N;

A is a 5 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, 3 or 4 heteroatoms selected from O, S, and N;

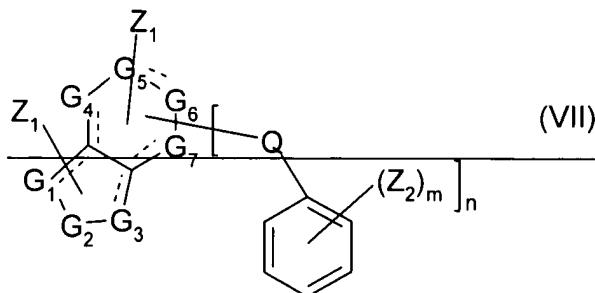
Q_1 and Q_2 are, in each case independently of each other, a bond or a straight chain or branched alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O, N or S atom, and in which optionally 1 or 2 C groups are replaced with C= or =C groups, and which is optionally substituted with an =O group, wherein Q_2 is absent when D is absent;

Z_1 is, in each case independently, NO_2 , OH , halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, S or O atom;

Z_2 is, in each case independently, NH_2 , OH , $=\text{NH}$, $=\text{O}$, $=\text{S}$, phenyl, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an S atom;

Z_3 is, in each case independently, $=\text{O}$, OH , NO_2 , NH_2 , halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an O atom, and

n is, in each case independently, 0, 1, 2 or 3;



wherein,

G_1 to G_7 are, in each case independently, C, O, S, or N, wherein at least 3 of G_1 to G_7 are C atoms;

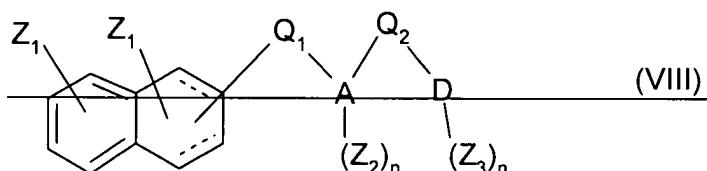
Z_1 is, in each case independently, absent, or =O, =NH or an alkyl group containing 1 to 5 carbon atoms;

Z_2 is, in each case independently, a straight chain or branched alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with 1 or 2 =O and/or OH groups;

Q is, in each case independently, a bond or an alkylene group containing 1 to 5 carbon atoms, which is optionally substituted with =O, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N or S atom, wherein S is optionally substituted with 1 or 2 =O groups, and

n is 0, 1 or 2, and

m is 1 or 2;



wherein,

A is a 5 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N, or is a C_{10} -aromatic bi-cyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

~~D~~ is absent or is a fully or partially saturated or unsaturated cyclic ring containing 6 or 7 carbon atoms;

~~Q₁~~ and ~~Q₂~~ are, each independently of each other, a bond or a straight chain or branched alkylene group containing 1-10 carbon atoms, which is optionally substituted with an =O group, and in which optionally 1, 2 or 3 carbon atoms, independently of each other, are replaced with an N or O atom, and wherein optionally 1-3 carbon atoms are replaced with a C= and/or =C, and/or when the alkylene group is straight chain with a phenyl group, wherein ~~Q₂~~ is absent when D is absent;

~~Z₁~~ is, in each case independently, absent or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O group, and which is optionally substituted with one or two =O or OH groups;

~~Z₂~~ is, in each case independently, =O or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O in one or two places and/or OH;

~~Z₃~~ is halogen, or an alkyl group containing 1 to 5 carbon atoms, which is optionally halogenated, and

~~n~~ is 1 or 2;

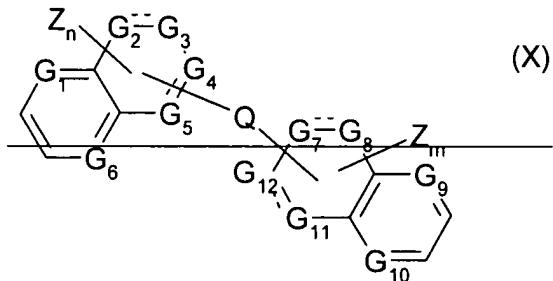
~~A~~ $\begin{cases} (Z)_n \\ \diagup \end{cases}$ (IX)

wherein,

~~A~~ is a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 2 or 3 heteroatoms selected from S and N;

~~Z~~ is, in each case independently, a straight chain or branched alkyl group containing 3-5 carbon atoms, which is substituted with =O and/or OH groups, and in which a carbon atom is replaced with an S atom, and

~~n~~ is 1, 2, or 3;



wherein,

G₁ to G₁₂ are, each independently of each other, C, N, S or O,

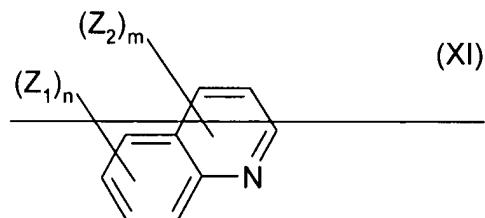
Z is, in each case independently, an alkyl containing 1 to 5 carbon atoms, which is optionally substituted with 1 to 2 =O and/or -OH groups;

Q is a bond or an alkylene group containing 1 to 5 carbon atoms;

m = 0, 1, 2 or 3,

n = 0, 1, 2 or 3, such that

m+n ≥ 1;



wherein,

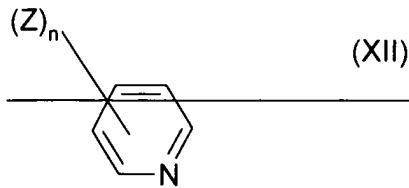
Z₁ is, in each case independently, halogen, -NO₂ or -OH,

Z₂ is, in each case independently, an alkyl group containing 1-5 carbon atoms, which is optionally substituted with an =O and/or -OH group, and in which optionally a carbon atom is replaced with an S atom;

n is 0, 1, 2, or 3,

m is 0, 1, 2, or 3, and

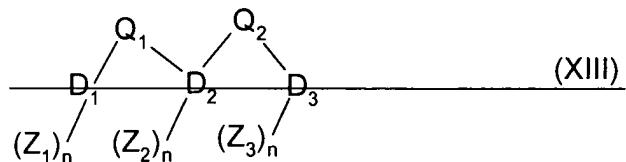
n+m is 3 or more;



wherein,

Z is, in each case independently, $\text{C}\equiv\text{N}$, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with halogen, and/or is substituted with one or more $=\text{O}$ and/or $-\text{OH}$ groups, and in which optionally a carbon atom is replaced with an S atom, and

n is 2, 3, 4 or 5;



wherein,

D_1 is a 5 or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N ,

D_2 is a 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N , or is optionally a phenylene group when D_3 is present,

D_3 is absent or a 5 or 6 membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O , S , and N ,

Q_1 is O , or a straight chain alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an N , O or S atom, and which is optionally substituted with an $=\text{O}$ atom,

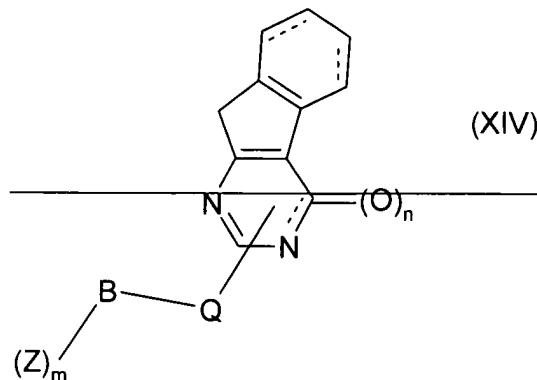
Q_2 is absent when D_3 is absent or is a bond or an $-\text{O}-$ group,

Z_1 is, in each case independently, $=\text{O}$ or halogen,

Z_2 is, in each case independently, $=\text{O}$, $\text{C}\equiv\text{N}$, COOH , NO_2 or halogen,

Z_3 is, in each case independently, halogen, and is absent when D_3 is absent, and

n—is, in each case independently, 0, 1, 2, or 3;



wherein,

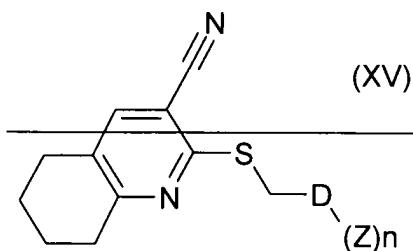
B—is a phenylene group;

Q—is a straight chain alkylene group containing 1-10 carbon atoms, in which optionally up to three carbon atoms are replaced with an N, O or S atom, and which is optionally substituted with 1 or 2 =O groups;

Z—is, in each case independently, halogen, or an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom;

n—is 0 or 1, and

m—is 1 or 2;

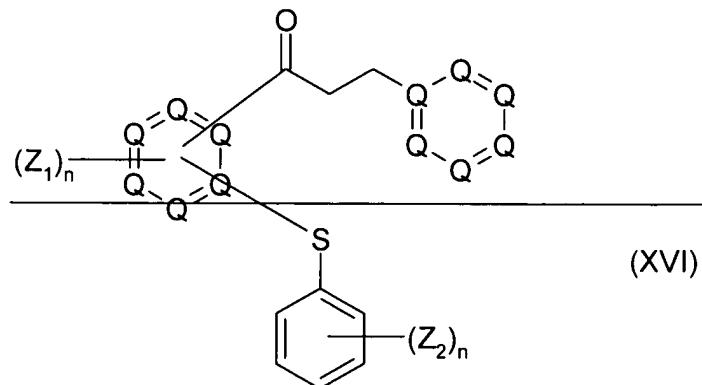


wherein,

D—is, a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N;

Z—is =O

n is 1, or 2;



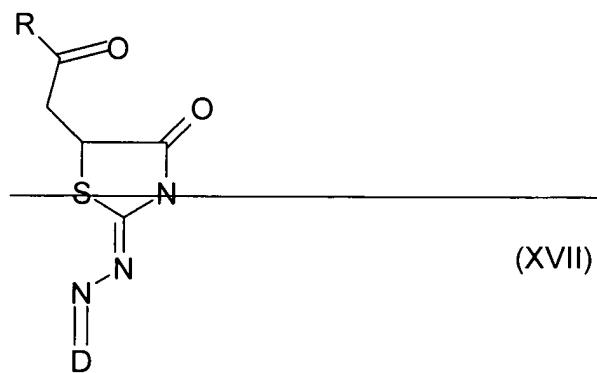
wherein,

Q is, each independently, C or N, wherein,

Z_1 is a phenyl group, or 2 of Z_1 together form with the Q atoms to which they are bound a 6-membered aromatic ring containing only C atoms,

Z_2 is halogen, preferably Cl, and

n is 1, or 2;

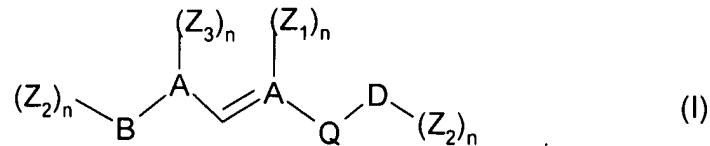


wherein,

D is, a carbocyclic group containing 8 to 10 carbon atoms, and

R is OH or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an N or O atom or with a phenyl group, and which is optionally substituted with 1 to 2 =O and/or OH groups.

3. (withdrawn) A pharmaceutical composition comprising a compound of formula I to XVII or a pharmaceutically acceptable salt thereof



wherein,

B is a phenyl ring,

D is a phenyl ring or a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

A is, in each case independently of each other, a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

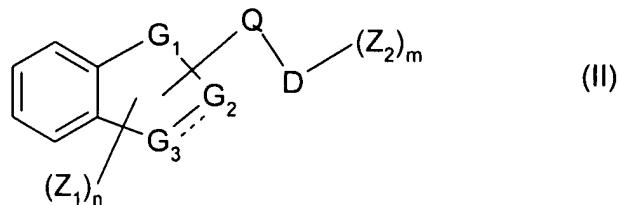
Q is a bond or an alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O, and in which optionally a carbon atom is replaced with an N atom,

Z_1 is, in each case independently, $-NH_2$, $=O$, $=NH$, or $=N-phenyl$, -phenyl, or alkyl containing 1 to 5 carbon atoms,

Z_2 is, in each case independently, $-OH$, halogen, alkyl containing 1-5 carbon atoms, which is optionally substituted with halogen, and/or substituted with $=O$ and/or $-OH$, and in which one C atom is optionally replaced with an O atom,

Z_3 is, in each case independently, alkyl containing 1-5 carbon atoms, and

n is, in each case independently, 0, 1, 2, or 3;



wherein,

G_1 , G_2 , and G_3 are, in each case independently, C, O, S, or N,

D is a phenyl ring or a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

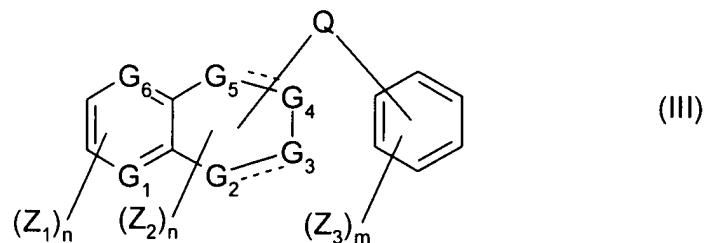
Q is a straight chain or branched alkylene or alkenylene group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or S atom,

Z_1 is, in each case independently, =O, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH,

Z_2 is, in each case independently, =O, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O and/or -OH,

n is 0, 1, or 2, and

m is 0, or 1;



wherein,

G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are, in each case independently, C, O, S, or N, such that four or five of G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are C atoms and the remaining G_1 , G_2 , G_3 , G_4 , G_5 and G_6 are O, S, or N,

Q is a bond or a straight chain or branched alkylene or alkenylene group containing 1-10 carbon atoms which is optionally substituted with =O in one or two places, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N or O atom, and in which optionally a carbon atom is replaced with a 6-membered heterocyclic group containing 1 or 2 nitrogen atoms when the alkylene or alkenylene group is a straight chain group,

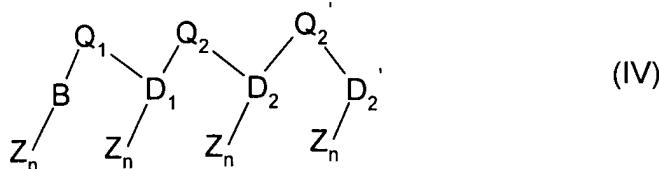
Z₁ is, in each case independently, -OH, halogen, or an alkyl group containing 1-5 carbon atoms,

Z₂ is, in each case independently, =O, halogen, or an alkyl group containing 1-10 carbon atoms which is optionally substituted with =O in one or two places and/or -OH, and in which optionally 1 or 2 carbon atoms, independently of each other, are replaced with an N and/or S atom,

Z₃ is, in each case independently, -OH, halogen, -NO₂, an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with =O in one or two places, or is -O-phenyl, wherein the phenyl group in the -O-phenyl is optionally substituted with an -NO₂ group,

n is 0, 1, or 2, and

m is 0, 1, 2, or 3;



(IV)

wherein,

B is a phenyl ring,

D₁ is a phenylene ring or a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,

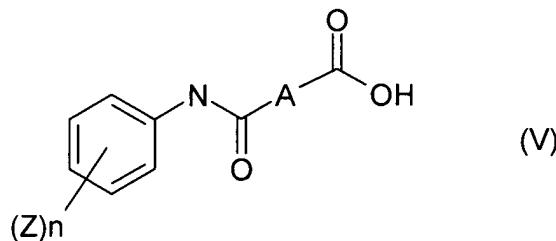
D₂ and D₂' are, each independently of each other, absent or a phenyl or phenylene ring or a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

Q₁ is a bond or a branched or straight chain alkylene or alkenylene group containing 1-10 carbon atoms, which is optionally substituted with 1 to 5 =O and/or OH groups, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N, O or S atom, wherein S is optionally substituted with 1 or 2 =O groups,

Q₂ and Q₂' are, each independently of each other, a bond or a branched or straight chain

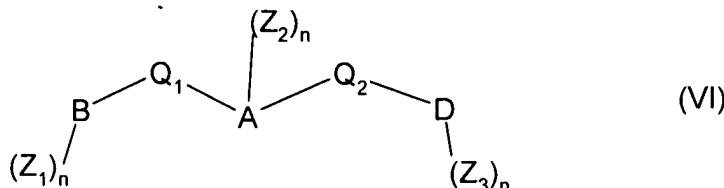
alkylene group containing 1-5 carbon atoms, which is optionally substituted with an =O group, in which optionally a carbon atom is replaced with an N, S, or O atom, wherein Q₂ is absent when D₂ is absent and Q_{2'} is absent when D_{2'} is absent,

Z is, in each case independently, =O, =S, -OH, -NH₂, -NO₂, -C≡N, -SO₃H, is halogen, or a straight chain or branched alkyl or alkenyl group containing 1 to 10, which is optionally substituted with 1 to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, O or S atom, or is a cyclic alkyl group containing 3 carbon atoms,
n is, in each case independently, 0, 1, 2, 3, 4 or 5;



wherein,

Z is, in each case independently, -NO₂, an alkyl containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with an =O group,
A is a straight chain alkylene group containing 1 to 5 carbon atoms, and
n is 1, 2 or 3;



wherein,

B is a phenyl ring,
D is absent, or is a phenyl ring or a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,

A is a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, 3 or 4 heteroatoms selected from O, S, and N,

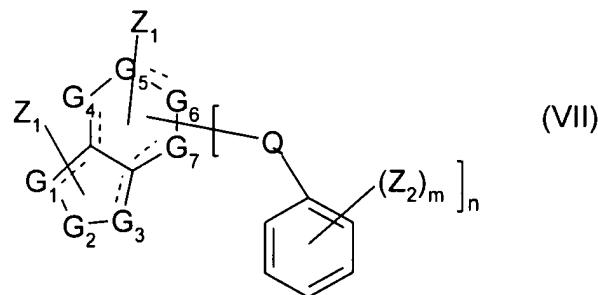
Q₁ and Q₂ are, in each case independently of each other, a bond or a straight chain or branched alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O, N or S atom, and in which optionally 1 or 2 -C- groups are replaced with -C= or =C- groups, and which is optionally substituted with an =O group, wherein Q₂ is absent when D is absent,

Z₁ is, in each case independently, -NO₂, -OH, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an N, S or O atom,

Z₂ is, in each case independently, -NH₂, -OH, =NH, =O, =S, phenyl, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an S atom,

Z₃ is, in each case independently, =O, -OH, NO₂, NH₂, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with up to 3 =O and/or OH groups, and in which optionally a carbon atom is replaced with an O atom, and

n is, in each case independently, 0, 1, 2 or 3;



wherein,

G₁ to G₇ are, in each case independently, C, O, S, or N, wherein at least 3 of G₁ to G₇ are C atoms,

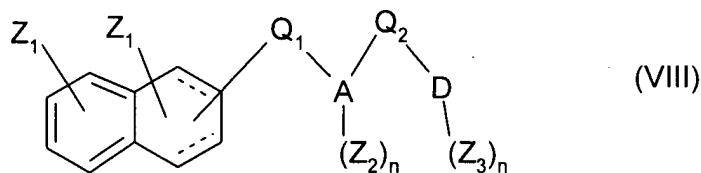
Z₁ is, in each case independently, absent, or =O, =NH or an alkyl group containing 1 to 5 carbon atoms,

Z₂ is, in each case independently, a straight chain or branched alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an O atom, and which is optionally substituted with 1 or 2 =O and/or -OH groups,

Q is, in each case independently, a bond or an alkylene group containing 1-5 carbon atoms, which is optionally substituted with =O, in which optionally 1, 2, or 3 carbon atoms are, in each case independently, replaced with an N or S atom, wherein S is optionally substituted with 1 or 2 =O groups, and

n is 0, 1 or 2, and

m is 1 or 2;



wherein,

A is a 5-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N, or is a C₁₀ aromatic bi-cyclic ring containing 1, 2 or 3 heteroatoms selected from O, S, and N,

D is absent or is a fully or partially saturated or unsaturated cyclic ring containing 6 or 7 carbon atoms,

Q₁ and Q₂ are, each independently of each other, a bond or a straight chain or branched alkylene group containing 1-10 carbon atoms, which is optionally substituted with an =O group, and in which optionally 1, 2 or 3 carbon atoms, independently of each other, are replaced with an N or O atom, and wherein optionally 1-3 carbon atoms are replaced with a -C= and/or =C-, and/or when the alkylene group is straight chain with a phenyl group, wherein Q₂ is absent when D is absent,

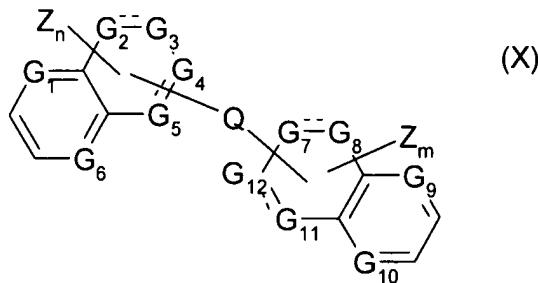
Z₁ is, in each case independently, absent or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an -O- group, and which is optionally substituted with one or two =O or -OH groups,

Z₂ is, in each case independently, =O or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with =O in one or two places and/or -OH,
Z₃ is halogen, or an alkyl group containing 1 to 5 carbon atoms, which is optionally halogenated, and
n is 1 or 2;



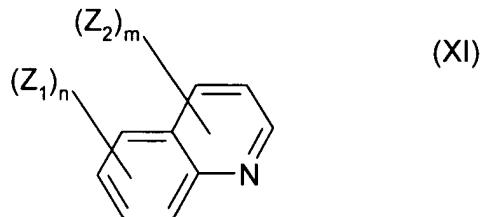
wherein,

A is a 5- or 6- membered saturated or partially or fully unsaturated heterocyclic ring containing 2 or 3 heteroatoms selected from S and N,
Z is, in each case independently, a straight chain or branched alkyl group containing 3-5 carbon atoms, which is substituted with =O and/or OH groups, and in which a carbon atom is replaced with an S atom, and
n is 1, 2, or 3;



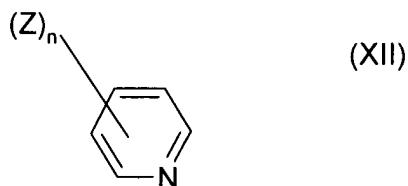
wherein,

G₁ to G₁₂ are, each independently of each other, C, N, S or O,
Z is, in each case independently, an alkyl containing 1 to 5 carbon atoms, which is optionally substituted with 1 to 2 =O and/or -OH groups,
Q is a bond or an alkylene group containing 1 to 5 carbon atoms,
m 0, 1, 2 or 3,
n 0, 1, 2 or 3, such that
m+n ≥ 1;



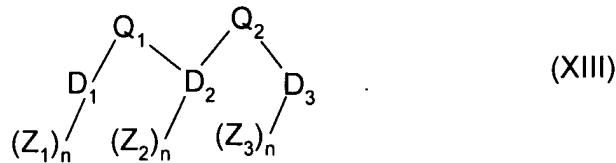
wherein,

- Z₁ is, in each case independently, halogen, -NO₂ or -OH,
- Z₂ is, in each case independently, an alkyl group containing 1-5 carbon atoms, which is optionally substituted with an =O and/or -OH group, and in which optionally a carbon atom is replaced with an S atom,
- n is 0, 1, 2, or 3,
- m is 0, 1, 2, or 3, and
- n + m is 3 or more;



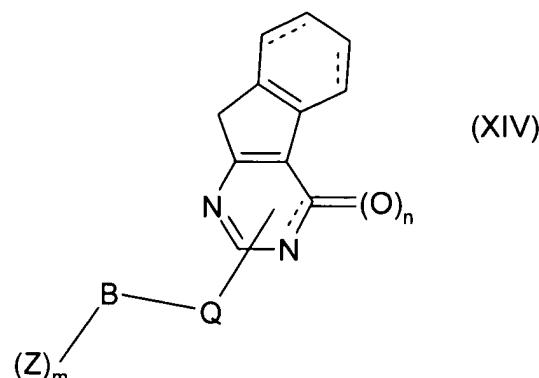
wherein,

- Z is, in each case independently, -C≡N, halogen, or an alkyl group containing 1-5 carbon atoms, which is optionally substituted with halogen, and/or is substituted with one or more =O and/or -OH groups, and in which optionally a carbon atom is replaced with an S atom, and
- n is 2, 3, 4 or 5;



wherein,

- D₁ is a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,
- D₂ is a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N, or is optionally a phenylene group when D₃ is present,
- D₃ is absent or a 5- or 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,
- Q₁ is -O-, or a straight chain alkylene group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an N, O or S atom, and which is optionally substituted with an =O atom,
- Q₂ is absent when D₃ is absent or is a bond or an -O- group,
- Z₁ is, in each case independently, =O or halogen,
- Z₂ is, in each case independently, =O, -C≡N, -COOH, -NO₂ or halogen,
- Z₃ is, in each case independently, halogen, and is absent when D₃ is absent, and
- n is, in each case independently, 0, 1, 2, or 3;



wherein,

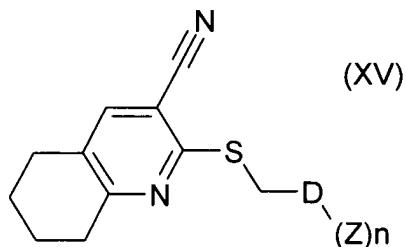
B is a phenylene group,

Q is a straight chain alkylene group containing 1-10 carbon atoms, in which optionally up to three carbon atoms are replaced with an N, O or S atom, and which is optionally substituted with 1 or 2 =O groups,

Z is, in each case independently, halogen, or an alkyl group containing 1-5 carbon atoms, in which optionally a carbon atom is replaced with an O atom,

n is 0 or 1, and

m is 1 or 2;

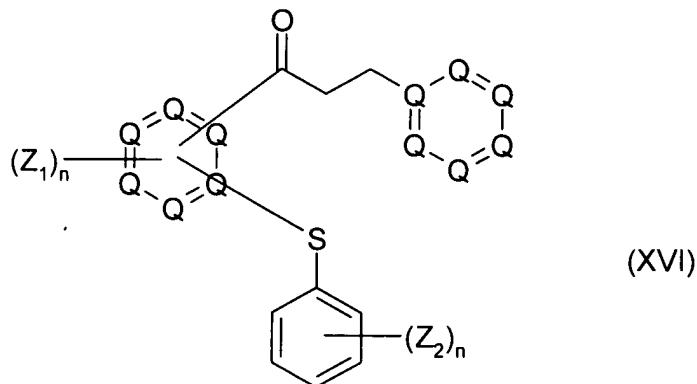


wherein,

D is, a 6-membered saturated or partially or fully unsaturated heterocyclic ring containing 1, 2, or 3 heteroatoms selected from O, S, and N,

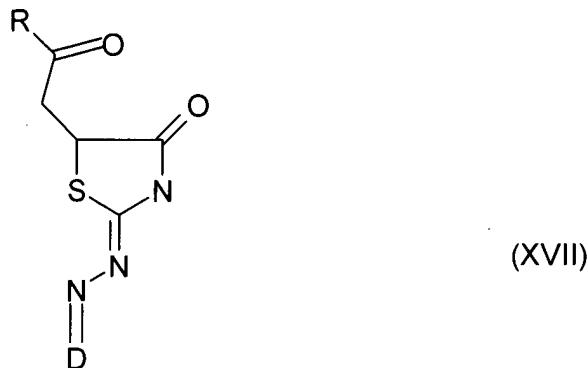
Z is =O

n is 1, or 2;



wherein,

Q is, each independently, C or N, wherein,
Z₁ is a phenyl group, or 2 of Z₁ together form with the Q atoms to which they are bound a 6-membered aromatic ring containing only C atoms,
Z₂ is halogen, preferably Cl, and
n is 1, or 2;

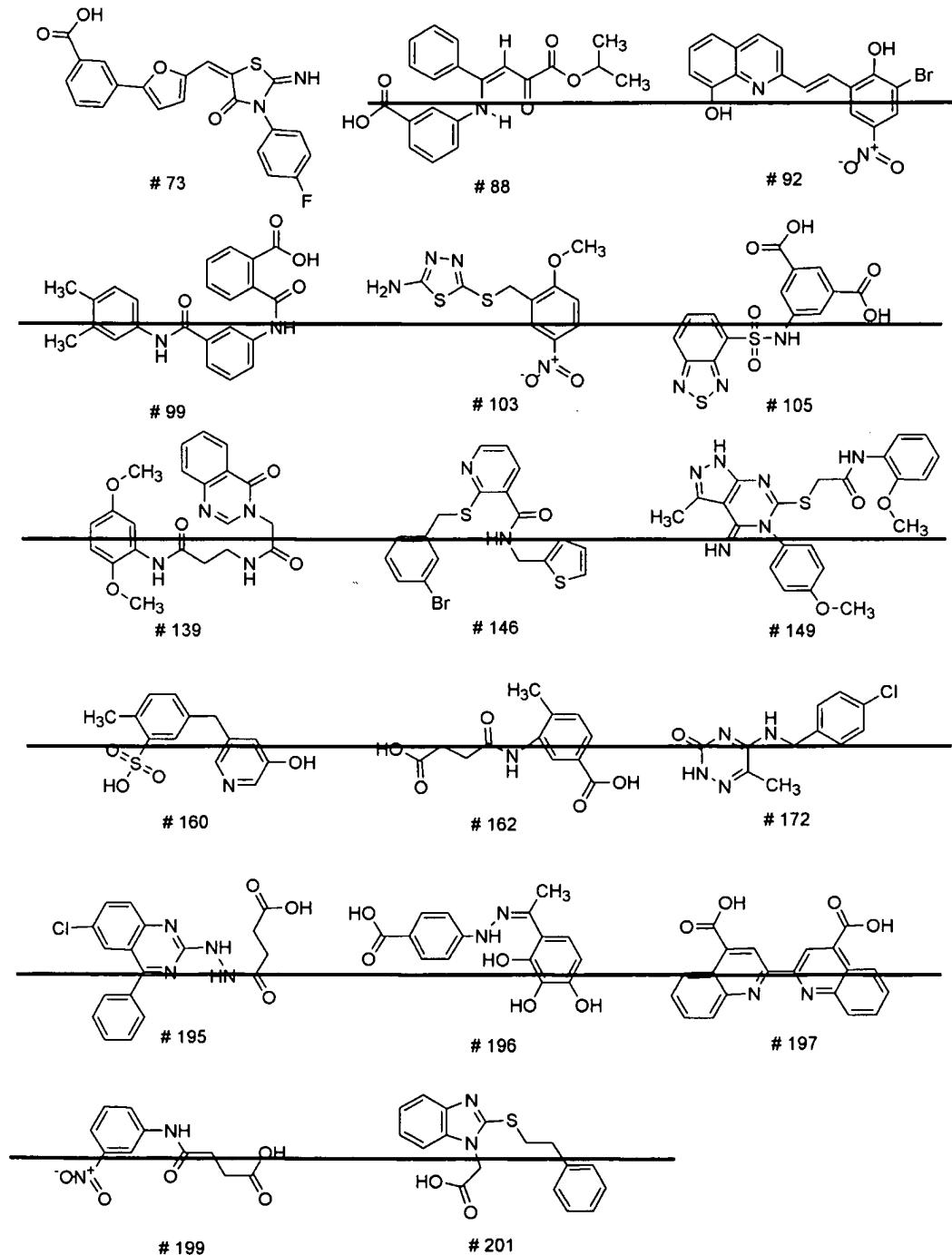


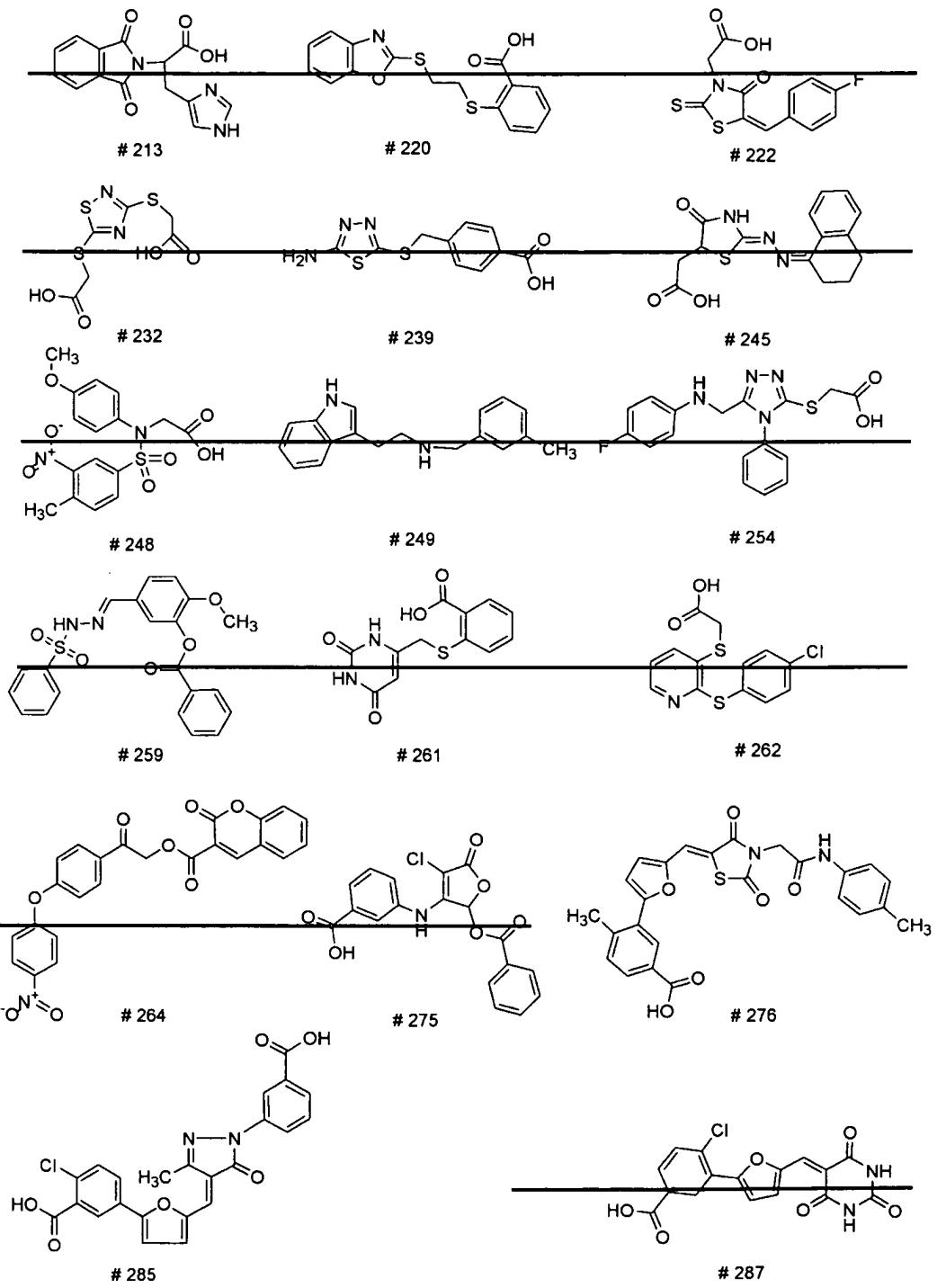
wherein,

D is, a carbocyclic group containing 8 to 10 carbon atoms, and
R is -OH or an alkyl group containing 1 to 5 carbon atoms, in which optionally a carbon atom is replaced with an N or O atom or with a phenyl group, and which is optionally substituted with 1 to 2 =O and/or -OH groups.

4. (withdrawn) A method of claim 1, wherein immunosuppression is affected.
5. (withdrawn) A method of claim 1, wherein said patient suffers from an autoimmune disease or from transplant rejection.
6. (withdrawn) A method of claim 5, wherein said patient suffers from rheumatoid arthritis.
7. (original) A method of claim 1, wherein said patient suffers from a neoplasm or a hyperplasia.

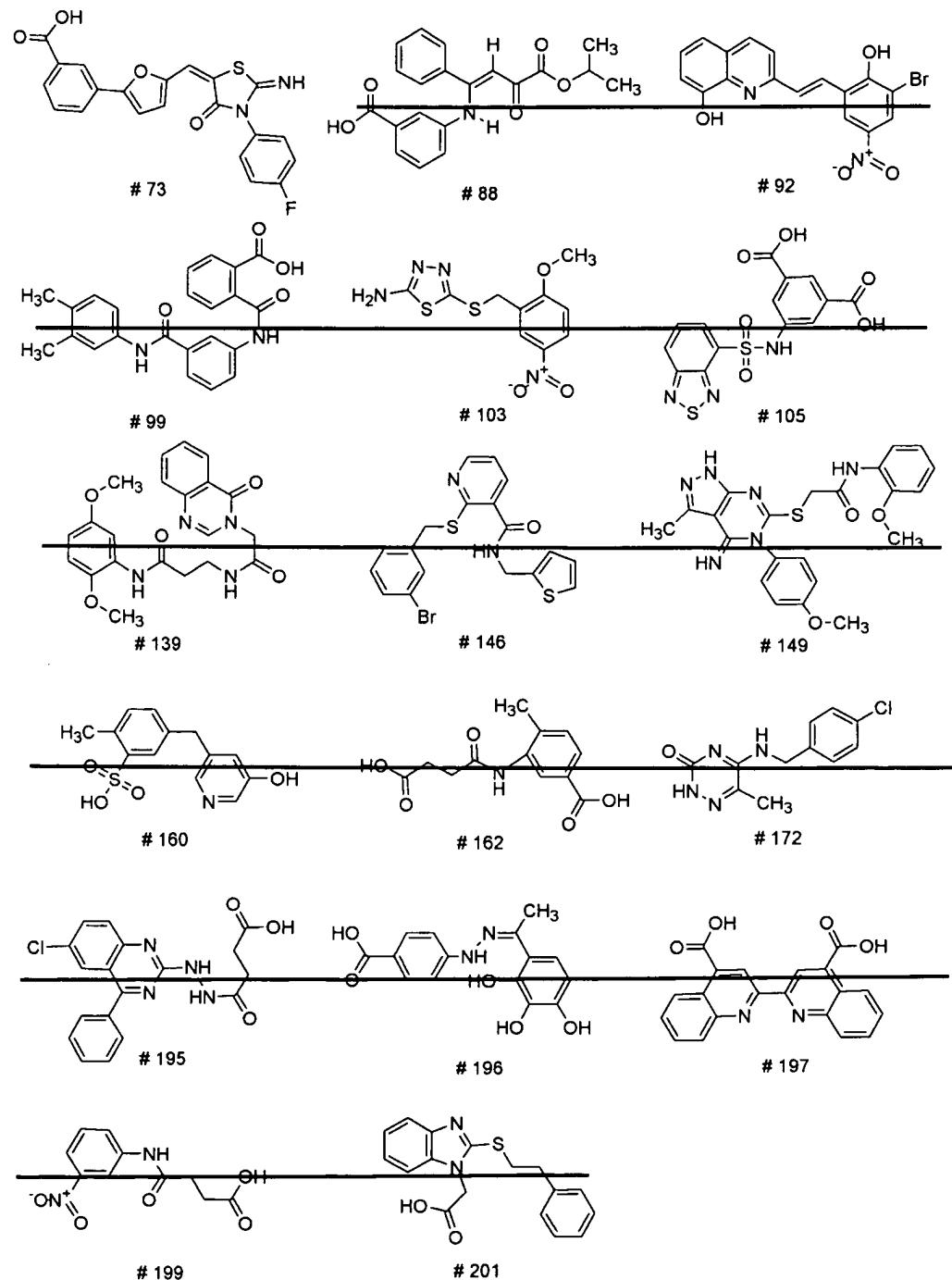
8. (original) A method of claim 7, wherein said patient suffers from a benign or malignant tumor.
9. (withdrawn) A method of claim 1, wherein said patient suffers from a depressed immune system.
10. (currently amended) A method of claim 1, wherein said patient suffers from leukemia, lymphoma, ovarian cancer or and breast cancer.
11. (original) A method of claim 1, wherein said patient is human.
12. (currently amended) A method of claim 1, wherein one of the following compounds or a pharmaceutically acceptable salt thereof is administered

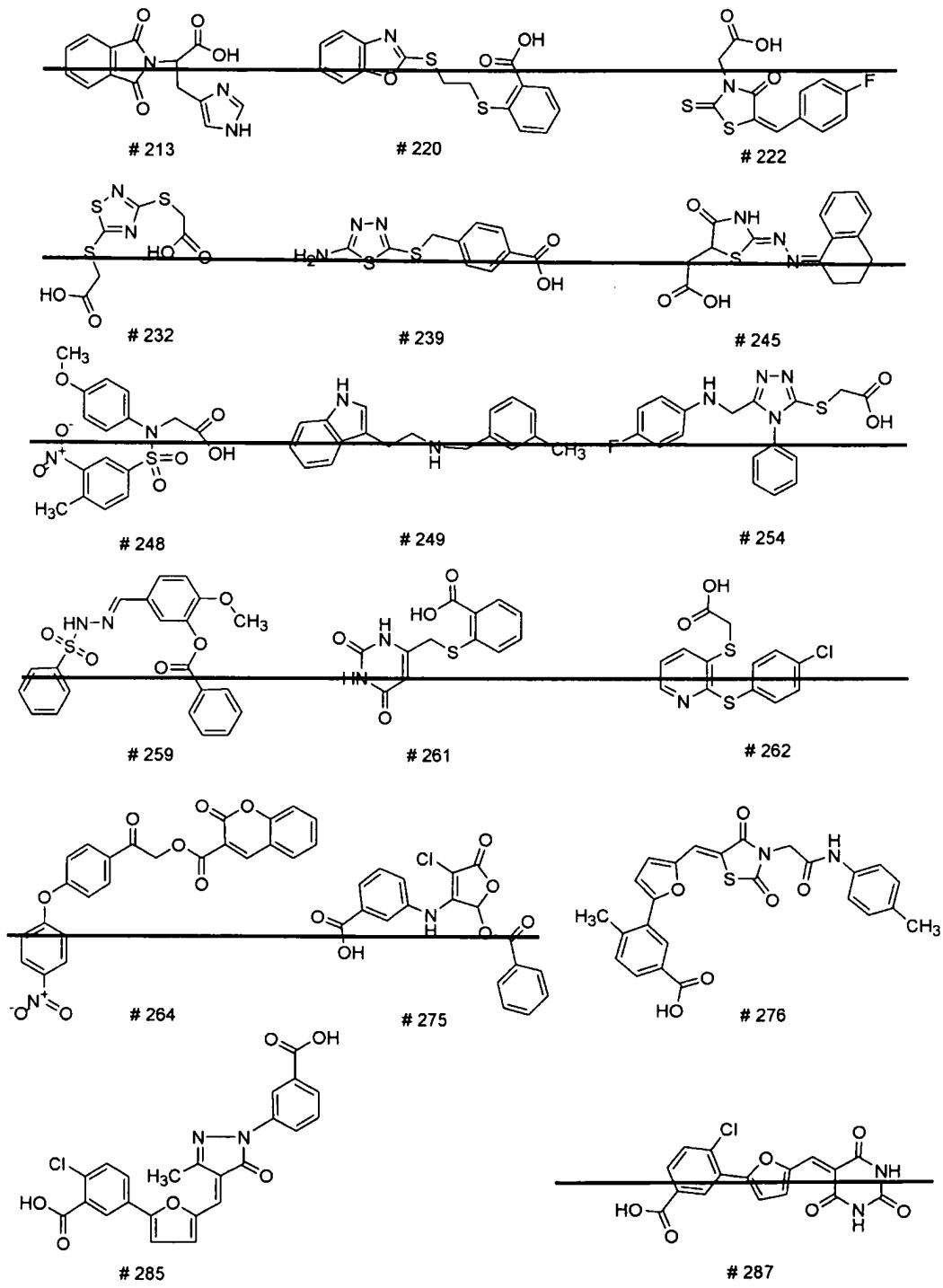




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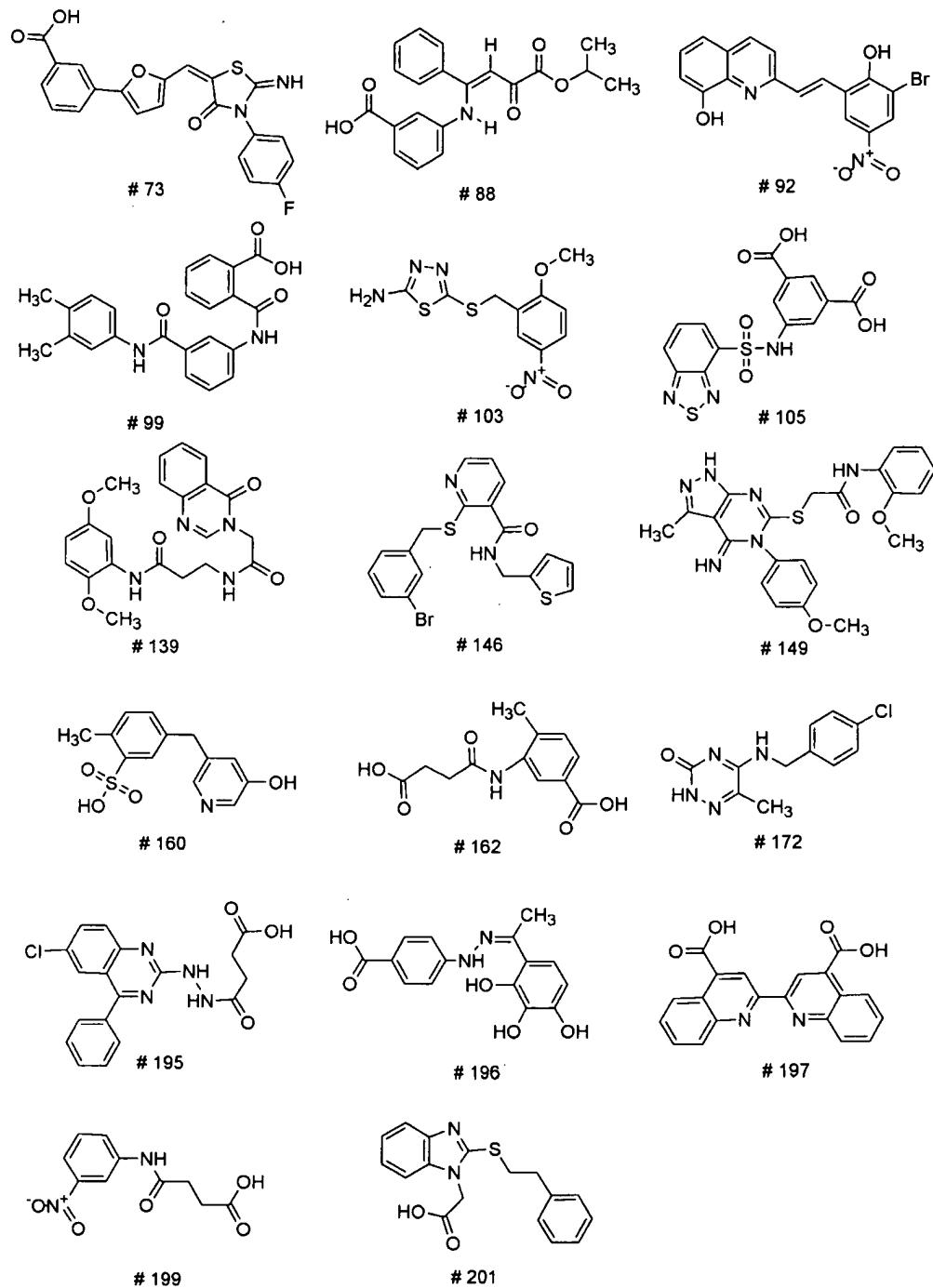
13. (currently amended) A method of claim 2, wherein one of the following compounds or a pharmaceutically acceptable salt thereof is administered

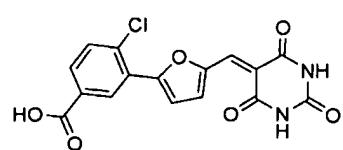
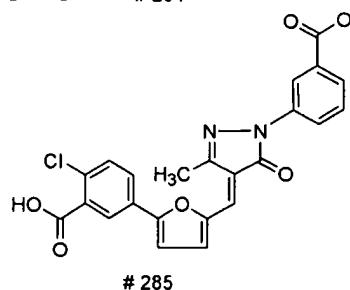
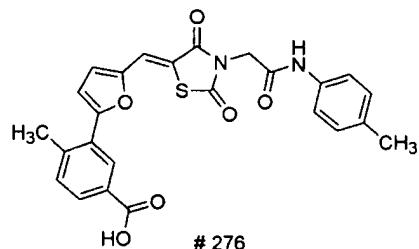
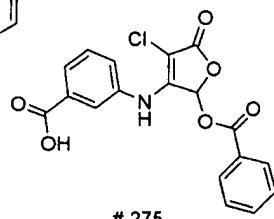
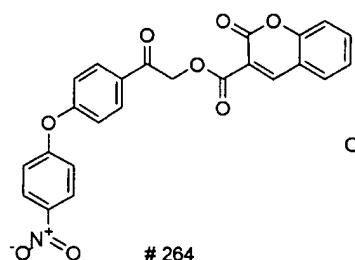
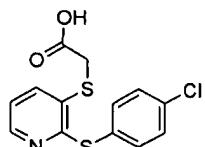
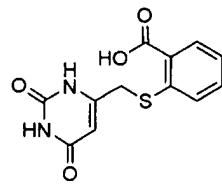
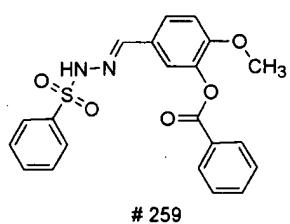
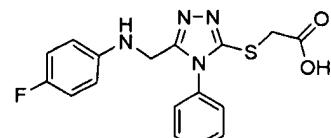
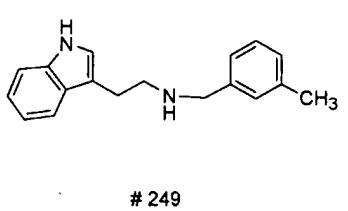
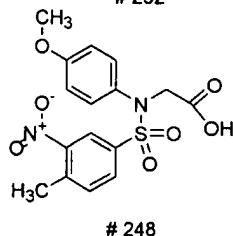
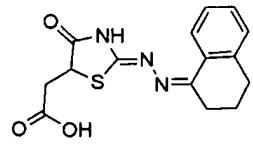
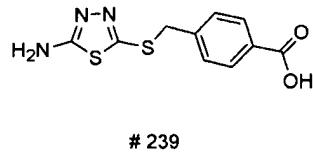
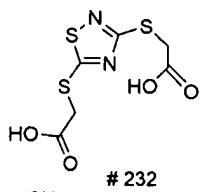
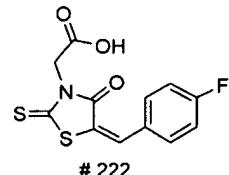
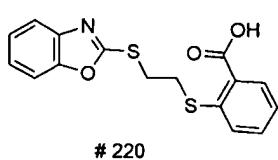
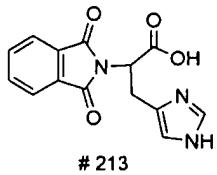




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14. (withdrawn) A pharmaceutical composition according to claim 3, comprising one of the following compounds or a pharmaceutically acceptable salt thereof



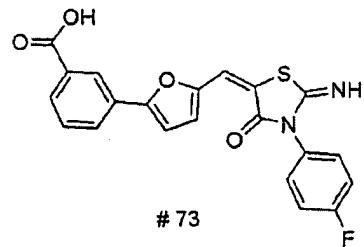


or

15. (withdrawn) A method of claim 12, wherein the compound 73 or 92 or a pharmaceutically acceptable salt thereof is administered.
16. (withdrawn) A method of claim 13, wherein the compound 73 or 92 or a pharmaceutically acceptable salt thereof is administered.
17. (withdrawn) A pharmaceutical composition according to claim 14, comprising the compound 73 or 92 or a pharmaceutically acceptable salt thereof.
18. (currently amended) A method of claim 1, wherein the compound of formula I formulae I to XVII has a solubility such that the ClogP value is ≤ 5 , a molecular weight of ≤ 500 Daltons, and ≤ 10 hydrogen bond donors and acceptors.
19. (currently amended) A method of claim 2, wherein the compound of formula I formulae I to XVII has a solubility such that the ClogP value is ≤ 5 , a molecular weight of ≤ 500 Daltons, and ≤ 10 hydrogen bond donors and acceptors.
20. (withdrawn) A pharmaceutical composition according to claim 3, wherein the compound of formulae I to XVII has a solubility such that the ClogP value is ≤ 5 , a molecular weight of ≤ 500 Daltons, and ≤ 10 hydrogen bond donors and acceptors.
21. (currently amended) A method according to claim 1 comprising administering an effective amount of a compound formula I formulae I to IX or a pharmaceutically acceptable salt thereof.
22. (original) A method according to claim 2 comprising administering a compound of formula I formulae I to IX or a pharmaceutically acceptable salt thereof.
23. (withdrawn) A pharmaceutical composition according to claim 3 comprising a

compound of formula I to IX or a pharmaceutically acceptable salt thereof.

24. (new) A method of claim 1, wherein the compound is



25. (new) A method of claim 1, wherein the compound is

